

# SOLAR INVERTER GPEO Series US Single Phase

GPEO-3K5L1-US

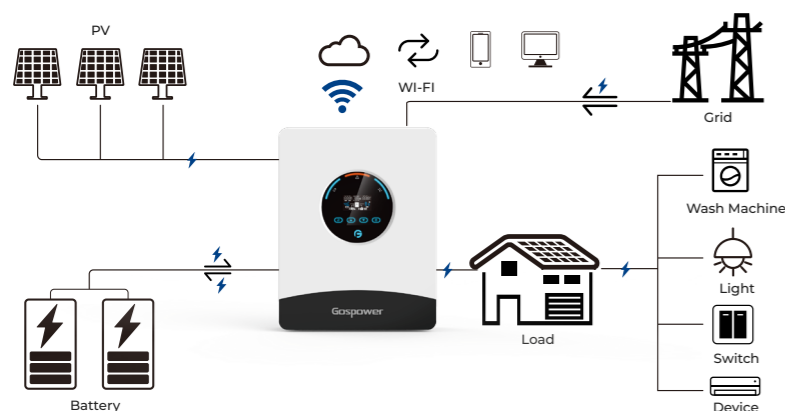
-   
3.5kW
-   
500V
-   
120V
-   
48V
-   
IP54



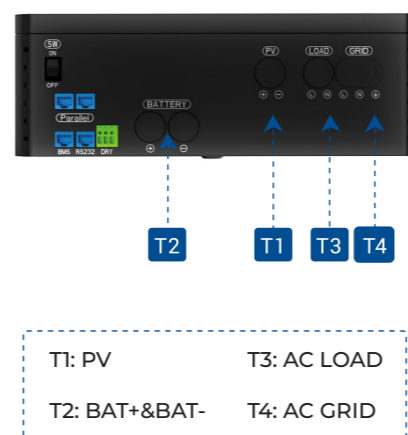
IP54 Design  
Pure Sine Wave  
110V/120V  
Support LiFePO4 & Lead-acid  
Battery  
3 Years Warranty

CE EN 62109-1 EN62109-2 IEC 61000

## HOUSE ENERGY SYSTEM



## CONNECTOR



### GPEO-3K5L1-US

<b>PV(DC input)</b>	
Recommended max. PV input power	6000W
Max. input voltage(Voc)	500V
MPPT operating voltage range	85V-450V (@ 85V start up)
Number of MPPT	1
Max. number of input strings per MPPT	2
Max. input current per MPPT	27A
Max. short-circuit current per MPPT	32A
<b>Grid(AC input)</b>	
Rated input power	4500W
Rated input current	37.5A
Rated grid voltage	110/120/127Vac(L,N)
Rated grid frequency	50/60Hz
Acceptable range	90-140Vac (For UPS); 80-140Vac (For Home Appliances)
<b>Battery parameters (Bidirection)</b>	
Battery type	LiFePO4 /Lead-acid
Battery voltage range	40-60Vdc
Rated battery voltage	48Vdc
Max. charge/discharge current	60A/65A
BMS communication mode	RS485
<b>Back-up output (AC output)</b>	
Rated output power	3500W/3500VA
Rated output current	29.2A
Rated output voltage/frequency	110/120/127V(L,N)50/60Hz
Parallel capacity	Max. 12 Units
Surge power	7000VA 5s
THDv (@ linear load)	<3%
Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)
<b>Efficiency</b>	
Max. efficiency	98.00%
Max. MPPT efficiency	99.90%
<b>Protection</b>	
Inner protection	√ Output short-circuit protection √Output overvoltage protection
Surge protection	PV: Type III, AC: Type III
IP rating	IP54
<b>General parameters</b>	
Operating temperature range	-10°C~ 50°C
Relative humidity range	5%-95%
Installation type	Wall-mounted
Cooling mode	Fan cooling
Communication	RS232/RS485/Dry contact/WIFI
Display	LCD
<b>Mechanical specifications</b>	
Inverter dimensions (L*W*H)(mm)	445*347*120
Net weight (kg)	12
Warranty period	3 Years